Partial List – Introduction Pending

1. The new SIS must have as its foundation a modern relational database. As of 7/17/2002, enterprise databases utilized at UCR include Oracle and DB2.

2. The new SIS must deliver a robust, easy-to-use SQL query tool (e.g. facilitates SQL joins) integrated natively into the application. A third party query tool (BRIO query) is acceptable, if it is tightly integrated into the SIS application.

3. The new SIS must deliver a robust reporting engine that is separate from the transaction processing system (facilitated via database replication, de-normalized database, etc.). This reporting system must be completely web enabled and tightly integrated with the SIS portal (see below). A third party web reporting tool (BRIO) is acceptable, if it is tightly integrated into the SIS application.

4. The new SIS must tightly integrate with a vendor supplied portal offering. At a minimum, the portal must provide students with the following:

   A. A student “customizable” browser interface.

   B. Seamless (e.g. single sign-on) access to student self service functionality (e.g. registration, degree audits, financial aid application, etc.).

   C. Seamless (e.g. single sign-on) access to “read only” student data (grades, financial statements, enrolled classes, etc.).

   D. Seamless (e.g. single sign-on, correct adds / drops processing) access to the campus learning management system (Blackboard).

   E. Seamless (e.g. single sign-on) access to other student electronic services (campus web mail system, calendaring, etc.).
F. Faculty and staff (especially staff involved with advising) must have portal access and access to specific areas of functionality (e.g. a faculty gradebook).

5. The new SIS must, however, allow for the development of a UCR supplied portal. At a minimum, the system must provide XML access to important code paths supporting core SIS processes (e.g. registration).

6. The new SIS must provide XML interfaces to key code paths that will facilitate seamless UCR SIS integration with other institutions of higher education (especially in California) as well as UCOP (e.g. Community Colleges for transfer students, other UCs for Summer Session, etc.).

7. The new SIS must provide robust data warehouses, OLAP (On-line Analytical Processing) tools, and DSSs (Decision Support Systems). However, UCR may decide to develop these systems internally or in collaboration with the vendor.

8. The new SIS must provide sufficient tables, code paths, and functionality to allow for automated “event driven” creation of e-mail sent to targeted “groups” or “classifications” of students.

9. The new SIS must provide sufficient code, tables, and functionality to permit at least XX% of SIS transactions to be processed on a completely “self service” basis.

10. The new SIS must provide sufficient flexibility (in terms of database design, development tools, XML interfaces, etc.) that will allow UCR to relatively quickly develop applications and application extensions aimed at minimizing campus SIS shadow systems.

11. The new SIS must natively (without “translations” or short cuts) support the complete campus Full Accounting Unit (FAU) for seamless integration with the campus General Ledger.

12. The new SIS must seamlessly integrate with the campus Payroll System so that Student Ids are identical in the campus Payroll System and the campus SIS.

13. The new SIS database must be constructed in such a fashion as to provide a scaleable solution (given distributed, self-service access for 20,000+ students, faculty, staff, and potential students considering attending UCR).